

In re Patent Application of:
BRANCH ET AL
Serial No. 10/015,024
Filed: DECEMBER 11, 2001

IN THE CLAIMS

1. (previously presented) An optical transceiver comprising:
 - a carrier including a cooperating structure at a distal portion thereof;
 - a cover including a coupling mechanism couplable to the cooperating structure of said carrier to define a transceiver enclosure; and
 - an electro-optical assembly supported in said transceiver enclosure;
 - wherein said coupling mechanism cooperates with said cooperating structure to enable pivoting motion in a controlled path of said cover relative to said carrier between closed and opened conditions relative to said transceiver enclosure about a pivoting axis offset from said transceiver;
 - wherein said cooperating structure includes a pair of separate and laterally spaced apart coupling elements that project from said carrier; and
 - wherein said coupling mechanism includes a pair of elongated slots, each of said slots is in corresponding separate and spaced apart walls of said cover, each of said slots being sized and shaped for camming corresponding ones of said coupling elements.
2. (previously presented) An optical transceiver comprising:
 - a carrier including a cooperating structure at a distal portion thereof;
 - a separable cover including a coupling mechanism couplable to the cooperating structure to define a transceiver enclosure; and

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an electro-optical assembly supported in said transceiver enclosure;

wherein said coupling mechanism is coupled to said cooperating structure for allowing pivoting motion in a controlled path of said cover between closed and opened conditions relative to said transceiver enclosure about a pivoting axis offset from said transceiver;

wherein said coupling mechanism includes a pair of separate and laterally spaced apart coupling elements that project from said cover; and

wherein each of said coupling elements has a tapering configuration that is sized and shaped to be slidably received by said cooperating structure for allowing the pivoting motion and to assist in a locking engagement of said cover and said carrier when said cover is in the closed condition.

3. (original) The transceiver of claim 2 wherein said coupling mechanism cams said cover to move to the closed condition without interference with upstanding components of said electro-optical assembly.

4. (original) The transceiver of claim 2 wherein said coupling mechanism cams said cover to move to the closed condition without applying lateral loads to upstanding components of said electro-optical assembly which would be sufficient to force said components from their intended upright positions.

5. (original) The transceiver of claim 3 wherein said coupling mechanism positions that at least one of said upstanding components is in a thermally conductive heat transfer relationship to an interior surface of said cover when the latter is in the closed condition.

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6. (canceled)

7. (previously presented) The transceiver of claim 1, wherein each of said coupling elements has a tapering configuration that is sized and shaped to be slidably received by said coupling mechanism for allowing the pivoting motion and to assist in a locking engagement of said cover and said carrier when said cover is in the closed condition.

8. (previously presented) The transceiver of claim 2, wherein said cooperating structure includes a pair of elongated slots, each of said slots is in corresponding separate and spaced apart wall of said carrier, each of said slots being sized and shaped for camming corresponding ones of said coupling elements.

9. (original) The transceiver of claim 7 wherein said pair of coupling elements straddle and engage opposing longitudinal marginal edges of said electro-optical assembly.

10. (original) The transceiver of claim 8 wherein said cover and said carrier are made of a material that provides for EMI shielding.

11. (original) The transceiver of claim 10 wherein said pair of coupling elements fit snugly within said slots so as to block said slots to provide for EMI shielding.

12. (previously presented) A data transfer system including a wall having an access opening and an adapter card assembly, in

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combination with an optical transceiver which is mounted to said wall access opening, said optical transceiver comprising:
a carrier;

a cover couplable to a portion of said carrier to define a transceiver enclosure;

an electro-optical assembly supported in the enclosure; and,

a coupling mechanism coupled to one of said carrier and said cover, said coupling mechanism cooperating with a cooperating structure on the other of said carrier and said cover for allowing pivoting motion in a controlled path of said cover relative to said carrier between closed and opened conditions relative to said enclosure about a pivoting axis offset from said transceiver;

wherein said coupling mechanism includes a pair of separate and laterally spaced apart coupling elements that project from said cover; and

wherein each of said coupling elements has a tapering configuration that is sized and shaped to be slidably received by said cooperating structure for allowing the pivoting motion and to assist in a locking engagement of said cover and said carrier when said cover is in the closed condition.

13. (previously presented) A data transfer system including a wall having an access opening and an adapter card assembly, in combination with an optical transceiver which is mounted to said wall access opening, said optical transceiver comprising:

a carrier including a cooperating structure;

a separable cover including a coupling mechanism couplable to the cooperating structure of said carrier to define a transceiver enclosure; and

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an electro-optical assembly supported in said enclosure, said electro-optical assembly having a distal end protruding from said enclosure and being connectable to said adapter card assembly;

wherein the a coupling mechanism is coupled to said cooperating structure for enabling pivoting motion of said cover between closed and opened conditions relative to said transceiver enclosure about a pivoting axis offset from said transceiver;

wherein said coupling mechanism includes a pair of separate and laterally spaced apart coupling elements that project from said cover; and

wherein said cooperating structure includes a pair of elongated slots, each of said slots is in corresponding separate and spaced apart wall of said carrier, each of said slots being sized and shaped for camming corresponding ones of said coupling elements.

14. (original) The system of claim 13 wherein said coupling mechanism cams said cover to move to the closed condition without substantial interference with upstanding components of said electro-optical assembly.

15. (original) The system of claim 13 wherein said coupling mechanism cams said cover to move to the closed condition without applying lateral loads to upstanding components of said electro-optical assembly that would be sufficient to damage said components.

16. (original) The system of claim 14 wherein said coupling mechanism insures that at least one of said upstanding components is in a thermally conductive heat transfer

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relationship to an interior surface of said cover when the latter is in the closed condition.

17. (previously presented) The system of claim 12, wherein said cooperating structure includes a pair of elongated slots, each of said slots is in corresponding separate and spaced apart walls of said carrier or said cover, each of said slots being sized and shaped for camming corresponding ones of said coupling elements.

18. (original) The system of claim 17 wherein said pair of coupling elements straddle and engage opposing longitudinal marginal edges of said electro-optical assembly.

19. (original) The system of claim 17 wherein said cover and said carrier are made of a material that provides for EMI shielding, such that said pair of coupling elements fit snugly within said slots so as to block said slots to provide for EMI shielding.

20. (canceled)

21. (canceled)